

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,033	06/20/2003	Hiroharu Ikeda	100647-3300CONT	8460
31013	7590 05/31/2006	EXAMINER		INER
KRAMER LEVIN NAFTALIS & FRANKEL LLP			HENDRICKSON, STUART L	
	INTELLECTUAL PROPERTY DEPARTMENT 1177 AVENUE OF THE AMERICAS		ART UNIT	PAPER NUMBER
NEW YORK,	NY 10036		1754	
			DATE MAILED: 05/31/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/601,033	IKEDA ET AL.		
		Examiner	Art Unit		
		Stuart Hendrickson	1754		
Period fo	The MAILING DATE of this communication apor Reply	pears on the cover sheet with the	correspondence address		
WHIC - Exte after - If NO - Failu Any	CORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DESIGNATION OF THE	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti I will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDONI	N. imely filed not the mailing date of this communication. ED (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 3/20	<u>0/06</u> .			
2a)⊠	This action is FINAL . 2b) This action is non-final.				
3)	S) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	.53 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>2</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>2</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o				
Applicat	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority (under 35 U.S.C. § 119				
12)[a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in Rule 17.2(a)).	tion No red in this National Stage		
2) Notic 3) Infor	et(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) Mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Der No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:			

Application/Control Number: 10/601,033

Art Unit: 1754

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over applicants' admissions concerning JP 3-503334 taken with Yagi et al.

Applicants admit on pg. 5 of the specification that the fibers of '334 are old and known. This differs in that the heating of the known fibers is not admitted as prior art.

Yagi teaches in column 2 lines 40-60 heating carbon fibers to 2500-3500 in inert gas and arriving at fibers with a diameter of 0.05-2 microns. The overlapping diameter range renders the claim unpatentable; In re Malagari 182 USPQ 549.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to so heat the known fibers of '334 because doing so stabilizes the structure and make the conductive material desired by Yagi col. 1 lines 15-30.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 2 is rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Rodriguez et al. article.

The reference teaches on pgs. 13108-9 crystalline, highly pure nanotubes of the claimed size which are highly graphitic (d002 is 3.37 for perfect graphite), and the catalyst is removed. No differences are seen, given that the properties recited are indicative of a crystalline, highly pure graphitic material. Concerning the hollow portion, pg. 1310 teaches this.

Art Unit: 1754

Applicant's arguments filed 3/20/06 have been fully considered but they are not persuasive.

The references are combinable for the reasons expressed, and meet all the limitations in so far as it can be determined. That Yagi teaches different materials does not detract from the scientific validity of the motivation to heat treat the admitted fibers; slight imperfections can be annealed away. Removing the catalyst by acid wash is axiomatic that one seeking a pure carbon would remove the catalyst (if any were used in the synthesis)- see Yagi col. 9. The 'perfection' of the priority PCT date is requested.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

Stuart Hendrickson examiner Art Unit 1754